| Inde | x of | Claims | ; |
|------|------|--------|---|
|      |      |        |   |
|      |      |        |   |
|      |      |        |   |

| Application No. | Applicant(s)    |  |
|-----------------|-----------------|--|
| 10/826,896      | JUNG, MAN-YOUNG |  |
| Examiner        | Art Unit        |  |
| Steven .Wong    | 3711            |  |

| 1 | Rejected | 1 | (Through no |
|---|----------|---|-------------|
| = | Allowed  | + | Restric     |

| - | (Through numeral)<br>Cancelled | N | Non-Elected  |
|---|--------------------------------|---|--------------|
|   | Restricted                     | ı | Interference |

|   | 4 | Appeal   |
|---|---|----------|
| ( | C | Objected |

| Cla                       | aim      | Γ                                   |                         | _ | ב         | Date     | 9         |          |           | - |       | Cla                    | im       |          |         |         | Date                |         |         |           | [       | Cla   | aim       |                     |          |         | Dat          | е              |                     |          |          |
|---------------------------|----------|-------------------------------------|-------------------------|---|-----------|----------|-----------|----------|-----------|---|-------|------------------------|----------|----------|---------|---------|---------------------|---------|---------|-----------|---------|-------|-----------|---------------------|----------|---------|--------------|----------------|---------------------|----------|----------|
|                           | -        | ١,,                                 |                         |   |           |          |           |          |           |   |       |                        | <u></u>  |          |         |         |                     |         |         |           |         |       | <u>-a</u> |                     |          |         |              |                |                     |          |          |
| Final                     | Original | 2/17/05                             |                         |   |           |          |           |          |           |   |       | Final                  | Original |          |         |         | 1 1                 | 1.      | 1       |           |         | Final | Original  |                     |          |         |              |                | 1                   |          |          |
| 這                         | Ĕ,       | នី                                  |                         |   |           |          |           |          |           |   |       | 匠                      |          |          |         |         | ΙI                  | - 1     |         |           |         | 正     | Ę         |                     |          |         |              |                | 1                   |          |          |
|                           |          |                                     |                         |   |           |          |           |          |           |   |       |                        |          |          |         |         |                     |         |         | Ш         |         |       |           |                     |          |         |              |                |                     |          |          |
|                           | 1        | ٧                                   |                         |   |           |          |           |          |           |   |       |                        | 51       |          | ᆚ       |         | $\sqcup$            |         |         | Ш         |         |       | 101       |                     |          |         |              |                | Ш                   | $\perp$  |          |
|                           | 2        | ٧                                   |                         |   |           |          |           |          |           | _ |       |                        | 52       | $\perp$  | ᆚ       | $\perp$ |                     | 丄       | $\perp$ | Ш         |         |       | 102       |                     |          | _       | ╙            |                | Ш                   | _        | _        |
|                           | 3        | ٧                                   | Ш                       |   |           |          |           |          | Ŀ         |   |       |                        | 53       |          |         |         | $\sqcup$            | ┸       |         | Ш         |         |       | 103       |                     |          |         |              |                | Ш                   | _        |          |
|                           | 4        | ٧                                   |                         |   |           |          |           |          |           |   |       |                        | 54       |          | $\perp$ | 1       | Ш                   | $\perp$ | ┷       | Ш         |         |       | 104       |                     |          | ┸       | ↓_           | _              | $\sqcup$            | _        |          |
|                           | 5        | v                                   | Ш                       |   |           |          | Ш         |          |           |   |       |                        | 55       |          |         | ┸       | Ш                   |         |         | Ш         |         |       | 105       | $\perp$             | _        | ┸       | 上            | L              |                     | _        |          |
|                           | 6        | ٧                                   | Ш                       |   | Ш         |          | Ш         |          |           |   |       | Ш                      | 56       |          |         | 1       | $\sqcup$            |         |         | Ш         |         |       | 106       |                     |          |         | 1            | Ш              | $\Box$              | _        | _        |
| L                         | 7        | V                                   | $\sqcup$                |   |           | $\Box$   | $\Box$    |          |           |   |       |                        | 57       |          | _       | 1       | Ш                   | _       | ┦       | Ш         |         |       | 107       | $\rightarrow$       | _        | _       | <u> </u>     |                | $\sqcup$            | 4        | _        |
| <u></u>                   | 8        | ٧                                   | Ш                       |   |           |          |           |          |           |   |       |                        | 58       | _ _      | $\bot$  | ┷       | Ш                   | _       | $\bot$  | $\sqcup$  |         |       | 108       | $\rightarrow$       | _        | 4       | _            | _              | $\vdash$            | 4        | _        |
|                           | 9        | v                                   | Ш                       |   | Ш         | Ц        |           |          |           |   |       | Ш                      | 59       | $\dashv$ |         | 4       | Ш                   | _       | _       | $\perp$   |         |       | 109       | $\perp$             |          | ┸       | ╄            | _              | $\sqcup$            | -        | _        |
| $ldsymbol{ldsymbol{eta}}$ | 10       | <u> </u>                            | Щ                       |   | Ш         | Ш        | Ц         |          |           | _ |       | $\sqcup \sqcup$        | 60       | _ _      |         | $\perp$ | ш                   |         | $\perp$ |           |         |       | 110       | $\sqcup$            |          | $\bot$  | ┺            |                | $\sqcup$            | $\dashv$ | _        |
|                           | 11       | ٧                                   | Щ                       | _ | $\square$ | $\sqcup$ | Ш         |          |           | _ |       | $\sqcup \sqcup$        | 61       | _        | 4       | 4_      | Ш                   | _       | _       | Щ         |         |       | 111       | $\sqcup \downarrow$ | 4        | $\bot$  | _            | Щ              | $\sqcup$            | 4        | _        |
|                           | 12       | <b>v</b>                            | Ц                       | _ | $\square$ | Щ        | Ш         |          | Ш         |   |       | $\sqcup \sqcup$        | 62       | _        | 4       | _       | ╙                   | _       | $\bot$  | Щ         |         |       | 112       | $\sqcup$            | $\dashv$ | -       | ļ            | Ш              | $\vdash \vdash$     | $\dashv$ | 凵        |
|                           | 13       | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ц                       |   | Щ         | Щ        | $\square$ | Ц        | Ш         |   |       |                        | 63       | _        | 4       | ╀-      | $\sqcup$            |         | 4_      | $\sqcup$  |         |       | 113       | $\sqcup$            | _        | +       | ╀            | Щ              | $\vdash \vdash$     | $\dashv$ | 4        |
|                           | 14       | L                                   | Ц                       |   | $\sqcup$  | Щ        | Ш         |          | Ш         |   |       | $\sqcup \sqcup$        | 64       | _        | 4       | _       | $\sqcup \downarrow$ | 4       | 4_      | Ш         |         |       | 114       | $\sqcup$            |          | -       | 1            | Щ              | $\sqcup$            | 4        | _        |
|                           | 15       | _                                   | Ц                       | _ |           |          | Ш         | Ц        | Ш         |   |       | $\sqcup \sqcup$        | 65       | _        | $\bot$  | ╁       | Ш                   |         | _       | Щ         |         |       | 115       | $\dashv$            |          | 4       | 1            | Ш              | $\vdash \downarrow$ | _        | 凵        |
| <u> </u>                  | 16       | <u>L</u>                            | $\sqcup$                |   | $\sqcup$  | $\sqcup$ |           |          | Ш         |   |       | $\vdash \vdash \vdash$ | 66       |          | 4       | 4-      |                     | 4       | -       | Ш         |         |       | 116       | $\sqcup$            | _ _      | 4       | 4_           | <u> </u>       | $\vdash \vdash$     | $\dashv$ | 4        |
|                           | 17       | L                                   | $\square$               |   | $\sqcup$  | $\sqcup$ |           |          |           |   |       | $\sqcup$               | 67       | $\perp$  | $\bot$  | _       | $\sqcup$            | $\bot$  | +       | Ш         |         |       | 117       | $\sqcup$            |          | $\perp$ | 4_           | <u> </u>       | $\vdash \vdash$     | $\dashv$ | 4        |
| igsquare                  | 18       | _                                   | $\sqcup$                | _ | <b> </b>  | <b></b>  | $\Box$    | _        | Ш         |   |       | $\sqcup$               | 68       | -        | 4       | _       | $\sqcup \downarrow$ | 4       | 4       |           |         |       | 118       | $\dashv$            |          | +       | 4_           | $\vdash$       | $\vdash \vdash$     | -        | ᅴ        |
|                           | 19       | <u> </u>                            | Щ                       | _ | <b> </b>  | $\sqcup$ | $\Box$    | _        | $\square$ |   |       | $\sqcup$               | 69       | $\dashv$ | +       | +       | $\sqcup$            | $\bot$  |         | $\sqcup$  | ١١      |       | 119       | $\sqcup$            |          | +       | +-           | $\vdash$       | $\vdash \vdash$     | _        | ᅬ        |
| ļi                        | 20       | <u> </u>                            | $\square$               |   | Щ         | $\sqcup$ | Щ         | _        | Ш         |   |       | <b>  </b>              | 70       | $\bot$   | $\bot$  | +       | $\sqcup$            |         | -       |           |         |       | 120       | $\sqcup$            | $\bot$   | $\bot$  | ╀            | $\sqcup$       | $\vdash \vdash$     | _        | _        |
| L                         | 21       | <u> </u>                            | $\square$               | _ | $\sqcup$  |          | $\Box$    |          | Ш         |   |       | $\sqcup \sqcup$        | 71       |          | 4       | _       | $\sqcup$            | _       | $\bot$  | Щ         |         |       | 121       | $\sqcup \downarrow$ | _        | +       | ļ            | Ш              | ${oxed}$            | $\dashv$ | 4        |
|                           | 22       | L                                   |                         | _ | $\dashv$  | $\dashv$ | $\Box$    |          | Ш         |   |       | Щ                      | 72       | _        | _       | ┷       | Ш                   | $\bot$  |         | Ш         |         |       | 122       | $\rightarrow$       |          | _       | ļ.           |                | $\sqcup$            | 4        | _        |
|                           | 23       | $oxed{}$                            | Щ                       |   | $\sqcup$  |          |           | $\Box$   |           |   |       |                        | 73       | _        | 4       | 4       | $\sqcup$            | _       | $\bot$  | $\Box$    |         |       | 123       | $\dashv$            | $\perp$  | _       | $\perp$      | Ш              |                     | 4        | _        |
|                           | 24_      |                                     |                         |   | Ц         |          |           |          | Щ         |   |       |                        | 74       | _        | 4-      | 4       | ш                   | _       | +-      | $\square$ |         |       | 124       |                     | -        | 4_      | ╄            |                |                     | -        |          |
|                           | 25       | _                                   | $\sqcup$                | _ | _         | _        | $\Box$    | _        |           |   |       | $\sqcup$               | 75       | _        | 4       |         | Н                   |         | -       | Щ         |         |       | 125       | -                   |          | -       | ┼            | Ш              | $\vdash \vdash$     | $\dashv$ | $\dashv$ |
|                           | 26       |                                     | $\sqcup$                | _ | Ш         | _        | 4         | _        | Ĺ         |   |       | $\Box$                 | 76       | _        | 4       | -       | $\sqcup$            |         |         | Ш         |         |       | 126       |                     | _        |         | _            | _              | $\vdash$            | -        | $\dashv$ |
|                           | 27       |                                     | _                       |   | $\perp$   | _        |           | _        |           |   |       |                        | 77       | _ _      | - -     | -       | ┷                   | _       | —       | $\square$ |         |       | 127       |                     |          | _       | _            | Ш              | $\vdash$            | -        | $\dashv$ |
|                           | 28       |                                     | Ш                       |   |           |          | _         | _        | $\Box$    |   |       |                        | 78       | _        | _       | ┷       | <b>  </b>           |         |         | $\Box$    |         |       | 128       | _                   | -        | -       | <del> </del> | Ш              | $\vdash$            | _        | ႕        |
|                           | 29       |                                     | $\perp$                 |   | Ц         | _        | _         | _        | $\Box$    |   |       | $\Box$                 | 79       | _        |         |         | $\sqcup$            | $\perp$ | _       | Щ         |         |       | 129       |                     |          | 4_      | <b>↓</b> _   | Ш              | $\vdash \vdash$     | $\dashv$ | ᅴ        |
|                           | 30       | _                                   | _                       | _ |           |          | -         | _        |           |   |       |                        | 80       | -        | 4       | +-      | $\sqcup$            | +       | ┦—      | Щ         |         | •     | 130       | $\vdash$            |          | 4-      | ┼            | _              | $\vdash$            | 4        |          |
|                           | 31       |                                     | $\perp$                 | _ |           | _        | $\dashv$  | 4        |           |   |       |                        | 81       |          | 4       |         | $\vdash$            | _       |         | H         |         |       | 131       |                     | +        | -       | ┼            |                |                     | -+       |          |
| ļ                         | 32       | L_                                  | $\sqcup$                | _ | $\sqcup$  |          | $\dashv$  |          | $\Box$    | _ |       |                        | 82       | -        | +       | 4       |                     | 4       | -       |           | 111     |       | 132       | _                   |          | +       |              | Н              | $\dashv$            | $\dashv$ | $\dashv$ |
|                           | 33       | _                                   | $\vdash \downarrow$     | _ |           |          | _         | _        | Щ         |   |       |                        | 83       | _        | +       | +       | $\vdash$            | _       | +       | $\square$ | <b></b> |       | 133       | $\dashv$            | +        | +       | -            |                | $\vdash \vdash$     | $\dashv$ | $\dashv$ |
| <u> </u>                  | 34       | <u> </u>                            | $\vdash \vdash$         |   |           | $\vdash$ | $\dashv$  | -        | $\sqcup$  | _ |       |                        | 84       | +        | +       | +       | $\vdash \vdash$     | -       | +-      | $\square$ | <b></b> |       | 134       | -                   | +        | +       | ╀            | $\vdash$       | $\dashv$            | $\dashv$ | $\dashv$ |
| <u> </u>                  | 35       | $\vdash$                            | $\vdash \vdash$         | _ | $\dashv$  | $\dashv$ | $\dashv$  |          | $\sqcup$  |   |       |                        | 85       | +        | +       | +       | ⊢                   | - -     | -       | $\square$ | :::     |       | 135       | $\dashv$            | $\dashv$ | +-      | ╀            | $\vdash$       | $\vdash \downarrow$ | $\dashv$ | ᅴ        |
| $\vdash$                  | 36       | _                                   | $\vdash \vdash$         | _ | $\dashv$  |          |           |          | $\Box$    | _ |       | $\vdash$               | 86       | +        | +       | +       | ₩                   |         | +       | H         |         |       | 136       |                     | $\dashv$ | 4-      | +            | Н              | $\dashv$            | $\dashv$ | ᅴ        |
| <b> </b>                  | 37       | _                                   | $\sqcup$                | _ | -         | $\dashv$ | _         | _        |           | _ |       | $\vdash$               | 87       | -        | 4       | +       | ┰                   | -       | +       |           |         |       | 137       | -                   | _        | +       | ╀            | Н              | $\vdash$            | $\dashv$ | ᅴ        |
| <u> </u>                  | 38_      | -                                   | $\sqcup$                | _ |           | _        |           | _        | _         |   |       | $\vdash$               | 88       | 4        | +       | +       | $\vdash \vdash$     | +       | -       |           |         |       | 138       | $\dashv$            | +        | +       | $\vdash$     | Н              | $\vdash \downarrow$ | $\dashv$ | $\dashv$ |
| <b> </b>                  | 39       | -                                   | $\mid \rightarrow \mid$ | _ |           |          | $\dashv$  | <b>_</b> |           |   |       | $\vdash \vdash \vdash$ | 89       | +        | +       | +       | ₩                   |         | +       | +         | ⊪       |       | 139       | -                   | $\dashv$ | +       | ╄            | Н              | $\dashv$            | $\dashv$ | $\dashv$ |
| <u> </u>                  | 40       | <u> </u>                            | $\vdash \vdash$         | 4 | _         | _        | $\dashv$  | _        |           |   |       | $\vdash \vdash$        | 90       | $\dashv$ | +-      | +-      | ⊢                   | -       |         | H         | ⊪       |       | 140       | $\dashv$            |          | +-      | +-           | Н              | $\dashv$            | $\dashv$ | $\dashv$ |
|                           | 41       |                                     | $\vdash \vdash$         | _ |           | -        |           |          | -         |   |       | $\vdash \vdash \vdash$ | 91       | +        | +       | +-      | ⊢⊦                  |         | -       | H         | ⊪       |       | 141       | $\dashv$            | -        | +       | +            | $\vdash$       | $\vdash \vdash$     | $\dashv$ |          |
|                           | 42       | <u> </u>                            | $\vdash$                | - | $\dashv$  | }        |           |          | $\dashv$  |   |       |                        | 92       | +        | +       | +       | $\vdash$            | +       | +       | H         | ⊪       |       | 142       | $\dashv$            | -        | +       | -            | $\vdash$       | $\vdash \vdash$     | $\dashv$ | $\dashv$ |
|                           | 43       | _                                   | $\vdash$                | _ | $\vdash$  | -        | $\dashv$  | -        | -         |   |       |                        | 93       | +        | +       | +       | ₩                   | +       | +       | H         |         |       | 143       | -                   |          | +       | +            | $\vdash$       | $\vdash$            | $\dashv$ | $\dashv$ |
|                           | 44       |                                     | $\dashv$                | - |           | $\dashv$ | $\dashv$  | -        | $\dashv$  |   |       | $\vdash$               | 94       | +        | +-      | +-      | ⊢                   | +       | +       |           | ⊪       |       | 144       | -                   |          | +       | ╀            | $\vdash$       | $\vdash \vdash$     | $\dashv$ | $\dashv$ |
| <b> </b> -                | 45       | -                                   | $\dashv$                | _ | $\dashv$  | -        | $\dashv$  | -        | $\dashv$  | _ |       | $\vdash \vdash \vdash$ | 95<br>96 | -        | +       | +       | ╁┼                  | +       | +-      | H         | ⊪       |       | 145       | $\dashv$            | +        | +       | ╀            | H              | $\vdash$            | $\dashv$ | ᅴ        |
| $\vdash$                  | 46       | H                                   | $\dashv$                | 4 |           | $\dashv$ | $\dashv$  | -        | $\dashv$  |   |       | $\vdash$               |          | +        | +       | +       | $\vdash \vdash$     | +       | +       | H         | ⊪       |       | 146       | $\dashv$            | +        | +       | +-           | $\vdash$       | $\vdash \vdash$     | -+       | 4        |
|                           | 47       | -                                   | $\vdash \vdash$         | - | -         | -        |           |          | _         |   |       |                        | 97       | +        | +       | +       | ├╌┼                 |         | +-      | -         | ⊪       |       | 147       | -                   |          | +       | ╁            | $\vdash$       | $\vdash$            | $\dashv$ | $\dashv$ |
| <del>  </del>             | 48       | -                                   | $\vdash \dashv$         |   |           |          |           |          |           |   |       |                        | 98       | -+-      | +-      | ╁       | ┼─┼                 | +       | +       | H         | ⊪       |       | 148       | -                   |          | +-      | ┿            | Н              | $\dashv$            | -+       | ᅱ        |
| <b> </b>                  | 49       | -                                   | $\vdash \vdash$         | _ |           | -        | $\dashv$  |          | _         |   |       |                        | 99       |          | +-      | +-      | ╁┷┼                 | -       | +       | H         | ⊪       |       | 149       | $\dashv$            | +        | +       | +            | $\vdash\dashv$ | $\vdash$            | $\dashv$ | $\dashv$ |
| L                         | 50       | L                                   |                         |   |           |          |           |          |           |   | ::::: |                        | 100      |          |         | 1_      |                     |         |         |           | ::::L   |       | 150       |                     |          | 1       | 1            | ı l            | . 1                 |          | - 1      |